

JOHNATHAN TAM

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Education

Bachelor of Computer Science (Dean's Honour List)

University of British Columbia, Vancouver, BC

Sep 2021 – May 2024

Bachelor of Science in Biology (Dean's Honour List)

University of British Columbia, Vancouver, BC

Sep 2012 – Nov 2017

Work Experience

Software Engineer Intern, Diligent Corporation

Sep 2023 – Jan 2024

Technologies: TypeScript, Node, Amazon Web Services (AWS) – S3, CloudWatch, Pipeline, DynamoDB

- Developed a CloudWatch-based monitoring system, triggering alarm notifications directly to Slack and SMS, therefore enabling real-time responses to critical events and **reduced manual monitoring by 50%**.
- Revitalized data verification processes to prevent duplication by developing a Lambda function that calculates and stores checksums for data and metadata in DynamoDB, with alerts to an SQS queue for any inconsistencies.
- Engineered a solution for generating and storing encrypted tokens (UUID with SHA256) in DynamoDB, ensuring enhanced security management.

Junior Software Developer Intern, Delta Controls

May 2023 – Aug 2023

Technologies: Python, Django, PostgreSQL, PHP, Zend, Docker, React, Jenkins

- **Enhanced web platform scalability by 40%** through transitioning key features from PHP Zend framework to Python Django framework.
- Designed a login API, facilitating secure transfer of cookies, IDs, and access tokens, while integrating comprehensive error handling for optimal system performance and reliability.
- Constructed advanced backend APIs for optimized data retrieval and updates, including crafting custom HTTP responses to ensure clear communication of successful or unsuccessful data transactions.

Full Stack Software Developer Intern, Convergence Concepts

Sep 2022 – Dec 2022

Technologies: React, JavaScript, TypeScript, GraphQL, Node, PostgreSQL, MongoDB, React Native, Apollo

- **Improved response time by 60%** of an affiliate network web application (Fintel Connect) by developing efficient SQL queries and creating relational database.
- Spearheaded the creation of dynamic, feature-rich web pages for Fintel Connect, shaping Figma designs from the UI/UX team into a responsive online marketing platform.
- Revitalized an outdated React Native application by upgrading it to the latest SDK, removing deprecated libraries, modernizing the codebase, and ensuring compatibility with both iOS and Android platforms.

Technical Projects

Hearo – SFU StormHacks Top 5 Finalist + Most Creative Use of API

Feb 18 – 20, 2022

Technologies: React, Node, RESTful APIs, JavaScript, CSS, HTML

- **Selected as a top 5 finalist and won the most creative use of API award** out of 400 participants at SFU StormHacks by working in a team of 4 to develop an app that transcribed speech from live phone calls into text.

Strata Resident Portal

July 2023 – Sep 2023

Technologies: React, TypeScript, Express, PostgreSQL, JWT, REST APIs, Styled-components

- **Showcased and designed a full-stack web application** for a strata council, offering residents a multi-faceted residential portal with secure login functionality that enables users to schedule bookings for a shared amenities facility, view strata announcements, and submit requests to the building manager.

Technical Skills

Languages: Python, Java, TypeScript, JavaScript, PHP, C/C++, HTML/CSS

Tools + Frameworks: React, Node, Express, Redux, Material-UI, Numpy, MongoDB, Auth0, JUnit, React Native, GraphQL, PostgreSQL, MySQL, Redux, Apollo, Django, Git, Jira, Confluence, Jenkins, AWS